

WHAT IS CLAIMED IS:

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1. An image reading device for reading an image while conveying an original on which the image is recorded, comprising:  
a plurality of light emitting element units, at each of which a plurality of light emitting elements are arrayed along a first direction which is a direction perpendicular to the original's conveyance direction, said plurality of light emitting element units being linearly disposed along the first direction, and light emission of said plurality of light emitting element units being respectively separately controlled;

an optical member for irradiating light emitted from said plurality of light emitting element units across at least an substantially entire width of the original in the first direction; and

photoelectric conversion elements which are disposed in correspondence with said plurality of light emitting element units, receive light that is one of transmitted through and reflected from the image, and conduct photoelectric conversion of the received light,

wherein the image is read while at least one originals is conveyed, the original having a width dimension corresponding to a width dimension of one of said plurality of light emitting element units or a combined width dimension of at least two of said plurality of light emitting element units.

2. An image reading device according to claim 1, wherein

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said optical member is formed by a plurality of light-guiding members which are provided at positions respectively corresponding to positions of said plurality of light emitting element units, and said optical member guides the emitted light to a vicinity of the original and causes the emitted light to be continuous across at least the substantially entire width of the original and to be free of boundary lines.

3. An image reading device according to claim 1, wherein two light emitting element units are provided and the image is read by causing a first direction central portion of one of or both of the light emitting element units to correspond with a first direction central portion of a conveying path of the original, in accordance with a first direction dimension of the original, a number of originals and a magnification at which the original is to be read.

4. An image reading device for reading an image while conveying an original on which the image is recorded, comprising:  
a plurality of light emitting element units, at each of which a plurality of light emitting elements are arrayed along a first direction which is a direction perpendicular to the original's conveyance direction, said plurality of light emitting element units being disposed along the first direction, and light emission of said plurality of light emitting element units being respectively separately controlled;

an optical member for guiding light emitted from each of said plurality of light emitting element units such that the light is irradiated to the original;

an original carrier for positioning the original at a predetermined position and conveying the original; and

a light receiving section for receiving light that is one of transmitted through and reflected from the original;

wherein, in accordance with the original which is set at said original carrier, relative positions, in the first direction, of said light receiving section, the original, said optical member and said plurality of light emitting element units can be altered and light emission of each of said plurality of light emitting element units is respectively separately controlled.

5. An image reading device according to claim 4, wherein said optical member and said plurality of light emitting element units are movable in the first direction, a position of the original at said original carrier, a position of said optical member, and positions of said plurality of light emitting elements are determined in accordance with at least one of a first direction dimension of the original, a number of originals set concurrently at said original carrier, and a magnification at which reading is to be conducted.

6. An image reading device according to claim 4, wherein said optical member is formed by a plurality of light-guiding



correspondence with said plurality of light emitting element units, receive light that is one of transmitted through and reflected from the image, and conduct photoelectric conversion of the received light.

9. An image reading device according to claim 8, wherein light emission of said plurality of light emitting element units is respectively selectively controlled in accordance with the number of conveyed originals which are conveyed in parallel;

10. An image reading device according to claim 8, wherein light emission of said plurality of light emitting element units is respectively selectively controlled in accordance with the first direction dimension of the conveyed original.

11. An image reading device according to claim 8, wherein said optical member is formed by a plurality of light-guiding members which are provided at positions respectively corresponding to positions of said plurality of light emitting element units, and said optical member guides the emitted light to a vicinity of the original and causes the emitted light to be continuous across at least the substantially entire width of the original and to be free of boundary lines.

12. An image reading device according to claim 8, wherein two light emitting element units are provided and the image is read

by causing a first direction central portion of one of or both of the light emitting element units to correspond with a first direction central portion of a conveying path of the original, in accordance with a first direction dimension of the original, a number of originals and a magnification at which the original is to be read.

13. An image reading device according to claim 8, wherein light emission of said plurality of light emitting element units is respectively selectively controlled in accordance with the first direction dimension and the number of originals which are conveyed in parallel.